## Topological and non-topological degeneracies in string-net models

Anna Ritz-Zwilling<sup>1</sup>, Jean-Noël Fuchs<sup>\*1</sup>, Steven Simon<sup>2</sup>, and Julien Vidal<sup>1</sup>

<sup>1</sup>Laboratoire de Physique Théorique de la Matière Condensée – Sorbonne Universite, Centre National de la Recherche Scientifique : UMR7600, Centre National de la Recherche Scientifique – LPTMC, Tour 24, Boîte 121, 4, Place Jussieu, 75252 Paris Cedex 05, France, France

<sup>2</sup>The Rudolf Peierls Centre for Theoretical Physics Clarendon Laboratory – The Rudolf Peierls Centre for Theoretical Physics Clarendon Laboratory Parks Road Oxford, OX1 3PU, Royaume-Uni

## Résumé

String-nets were introduced by Levin and Wen as exactly solvable models of topological order with all kinds of anyons. The energy spectrum of these models is trivial but the degeneracies are not. We will show how to compute these degeneracies and obtain the exact partition function of these models opening the way to their study at finite temperature. https://arxiv.org/abs/2309.00343

<sup>\*</sup>Intervenant